

Interpretation of Urine Drug Test (UDT) based on Opioid Prescribed

Opioid prescribed	Order this test to detect opioid prescribed	Expected Results		Unexpected Results (Results that SHOULD NOT be seen)
		Method	Result	
Buprenorphine (Suboxone [®] , Subutex [®])	GC/MS or LC/MS Buprenorphine	Mass Spectrometry	Buprenorphine / Norbuprenorphine	Buprenorphine / Norbuprenorphine – None Detected
Codeine (Tylenol #3 or #4)	Opiates Immunoassay	Immunoassay	Opiates – Positive	Opiates – Negative by Immunoassay
	GC/MS or LC/MS Opiates	Mass Spectrometry	Codeine, possibly Morphine	Hydrocodone, Hydromorphone, Oxycodone, Oxymorphone, or 6-acetyl morphine (Heroin metabolite)
Fentanyl (Actiq [®] , Duragesic [®])	GC/MS or LC/MS Fentanyl	Mass Spectrometry	Fentanyl and Norfentanyl	Opiates – Positive by Immunoassay
Hydrocodone (Lorcet [®] , Lortab [®] , Norco [®] , Vicodin [®])	Opiates by Immunoassay	Immunoassay	Opiates – Positive	Opiates – Negative by Immunoassay
	GC/MS or LC/MS Opiates	Mass Spectrometry	Hydrocodone, possibly Hydromorphone	Codeine, Morphine, Oxycodone, Oxymorphone, or 6-acetyl morphine (Heroin metabolite)
Hydromorphone (Dilaudid [®])	Opiates by Immunoassay	Immunoassay	Opiates – Positive	Opiates – Negative by Immunoassay
	GC/MS or LC/MS Opiates	Mass Spectrometry	Hydromorphone	Codeine, Morphine, Hydrocodone, Oxycodone, Oxymorphone, 6-acetyl morphine (Heroin metabolite)
Meperidine (Demerol [®])	GC/MS or LC/MS Meperidine	Mass Spectrometry	Normeperidine, possibly Meperidine	Opiates – Positive by Immunoassay
Methadone (Dolophine [®] , Methadose [®])	Methadone Immunoassay	Immunoassay	Methadone – Positive ¹	Opiates – Positive by Immunoassay
	GC/MS or LC/MS Methadone	Mass Spectrometry	Methadone and EDDP	Methadone only
Morphine (Avinza [®] , Kadian [®] , MSContin [®] , MSIR [®] , Oramorph SR [®] , Roxanol [®])	Opiates Immunoassay	Immunoassay	Opiates – Positive	Opiates – Negative by Immunoassay
	GC/MS or LC/MS Opiates	Mass Spectrometry	Morphine, possibly Hydromorphone if on high dose or chronic Morphine	Codeine, Hydrocodone, Oxycodone, Oxymorphone, 6-acetyl morphine (Heroin metabolite)
Oxycodone ER (Oxycontin [®])	Oxycodone Immunoassay	Immunoassay	Oxycodone – Positive	Oxycodone – Negative
	Opiates Immunoassay	Immunoassay	Opiates – Positive, dose > 100 mg/day	Opiates – Negative
	GC/MS or LC/MS Opiates	Mass Spectrometry	Oxycodone and Oxymorphone	Codeine, Morphine, Hydrocodone, Hydromorphone, or 6-acetyl morphine (Heroin metabolite)
Oxycodone (OxyIR [®] , Percocet [®] , Tylox [®])	Oxycodone Immunoassay	Immunoassay	Oxycodone – Positive	Oxycodone – Negative by Immunoassay
	Opiates Immunoassay	Immunoassay	Opiates – Negative, dose <100 mg/day	Opiates – Positive by Immunoassay, dose >100 mg/day
	GC/MS or LC/MS Opiates	Mass Spectrometry	Oxycodone, Oxymorphone	Codeine, Morphine, Hydrocodone, Hydromorphone, 6-acetyl morphine (Heroin metabolite)
Oxymorphone (Opana [®] , Opana ER [®])	Oxycodone Immunoassay	Immunoassay	Oxycodone – Positive	Opiates – Positive by Immunoassay
	GC/MS or LC/MS Opiates	Mass Spectrometry	Oxymorphone	Codeine, Morphine, Hydrocodone, Hydromorphone, Oxycodone, or 6-acetyl morphine (Heroin metabolite)
Propoxyphene (Darvon [®] , Darvocet [®])	Propoxyphene Immunoassay	Immunoassay	Propoxyphene - Positive	Opiates – Positive by Immunoassay
	GC/MS or LC/MS Propoxyphene	Mass Spectrometry	Propoxyphene / Norpropoxyphene	
Tramadol (Ultram [®] , Ultracet [®])	GC/MS or LC/MS Tramadol	Mass Spectrometry	Tramadol and metabolites	Opiates – Positive by Immunoassay

Immunoassays are only SCREENING tests; the results are not specific for the drug/drug class.

Mass Spectrometry: GC/MS – Gas Chromatography / Mass Spectrometry - testing is specific testing and definitive.

LC/MS – Liquid Chromatography / Mass Spectrometry - testing is specific testing and definitive.

¹Detection times of methadone in urine can be variable: patients on lower doses (<40mg) of methadone may screen Negative by Immunoassay.